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U.S. Appln. No. 10/716,658

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Gert Johannes Brits
Title: Plectranthus Plant Named 'P000607'
(as amended)
Appl. No.: 10/716,658
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Examiner: J. Hwu
Art Unit: 1661

**SUBMISSION OF SUBSTITUTE SPECIFICATION
UNDER 37 CFR 1.125 and MPEP § 608.01(q)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant hereby submits a Substitute Specification in the above-captioned application. Pursuant to 37 CFR 1.125 and MPEP § 608.01(q), Applicant certifies that the Substitute Specification contains no new matter.

Respectfully submitted,

Date

June 21, 2004

FOLEY & LARDNER, LLP
Customer Number: 22428
22428
PATENT TRADEMARK OFFICE
Telephone: (202) 672-5483
Facsimile: (202) 672-5399

By

Richard C. Peet

Richard C. Peet
Attorney for Applicant
Registration No. 35,792



SUBSTITUTE SPECIFICATION

PLECTRANTHUS PLANT NAMED 'P000607'

Latin name of genus and species of the plant claimed:

Plectranthus hybrida

5 Variety denomination:

P000607

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Plectranthus* plant, botanically known as *Plectranthus hybrida* (Family Lamiaceae), hereinafter
10 referred to by the name 'P000607'.

The new *Plectranthus*, 'P000607', is a product of a planned breeding program conducted by the Inventor, Gert Johannes Brits, in Stellenbosch, Republic of South Africa. The objective of the breeding program is to improve upon the *Plectranthus* varieties currently available, such as the cultivar 'Edelbau'
15 (unpatented) by developing a *Plectranthus* variety with a more compact growth habit, larger flowers and improved vigor. The new *Plectranthus* originated from a hybrid backcross by the Inventor between a proprietary selection of *Plectranthus saccatus* named 'F1' (*P. saccatus* x *P. hilliardiae*; unpatented) and a proprietary selection of unnamed *Plectranthus hilliardiae* (unpatented). The parental
20 cultivar, *P. hilliardiae*, has a compact plant habit, large elongated leaves, purple veined leaves on the underside, and a narrow, elongated flower tube. The parent cultivar *P. saccatus* has a tall, straggly plant habit, the leaves are not elongated,

green leaves on the underside, and large, wide flower tube, largest flower in the genus.

The new cultivar has been produced only by vegetative propagation (cuttings). The Inventor selected the new *Plectranthus* cultivar from the progeny of
5 the above cross in 2001 on the basis of its compact growth habit, larger flowers and increased vigor.

Asexual reproduction of the new cultivar by terminal cuttings taken and propagated in 1999-2001, has shown that each of the progenies exhibit characteristics identical to the original plant. These characteristics have been
10 shown to come true to form through many generations of asexual propagation under commercial production conditions in Nr. Lyndelse, Fyn, Denmark. The present invention has been tested under lighted greenhouse conditions and for keeping quality in a consumer environment, but may differ in various aspects if grown under different conditions.

15 SUMMARY OF THE INVENTION

Plants of the cultivar 'P000607' have not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature, light intensity, day length, and fertility level without, however, any variance in genotype.

20 The following traits have been repeatedly observed and are determined to be the unique characteristics of 'P000607'. These characteristics in combination distinguish 'P000607' as a new and distinct cultivar:

1. Large blue flowers;

2. Compact and freely branching plant habit;

3. Shorter production time, 12 – 14 weeks as compared to 16 – 28 weeks in similar varieties;

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4. Dense, colorful foliage; and

5. Sexual sterility.

Side-by-side comparisons between the instant plant and other similar *Plectranthus* , including the variety 'Edelblau', were conducted by the Inventor.

10 Plants of 'P000607' differ from other similar *Plectranthus* cultivars , including the variety 'Edelblau', in the following characteristics:

1. Plants of 'P000607' have longer, clear bright blue flowers than plants of similar *Plectranthus* cultivars.

15 2. Plants of 'P000607' have better branching growth habit and denser, more colorful foliage than plants of similar *Plectranthus* cultivars.

3. Plants of 'P000607' have a faster growth rate than plants of similar *Plectranthus* cultivars.

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BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying photographic drawings illustrate the overall appearance of the new cultivar, showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slightly

from the color values cited in the detailed botanical description, which more accurately describe the actual colors of 'P000607'.

The first photographic drawing shows a side perspective view of a typical flowering plant of 'P000607' as grown in 12 cm pots. The second photographic drawing shows a close-up view of typical flowering racemes of 'P000607'. The third photographic drawing shows a close-up of the inflorescence of 'P000607'.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal Horticultural Society (RHS) Colour Chart, 4th edition. Plants were grown under greenhouse conditions. The plants described were between 12 and 15 weeks old after cutting, as grown in 12 cm pots.

Parentage: Hybrid backcross between proprietary selection of *Plectranthus saccatus* named 'F1' (*Plectranthus saccatus* x *P. hilliardiae*; unpatented) and unnamed *Plectranthus hilliardiae* (unpatented).

Propagation:

Type cutting. Terminal vegetative cuttings.

Plant description:

Form: Perennial, herbaceous plant with upright, branched plant form.

Crop time: Flowering induced by short day treatment in 12 cm pots for 4 weeks under greenhouse conditions.

Plant height (soil level to top of plant plane): About 35 cm.

Plant spread: About 35 cm

Stem: Upright, stiff, square, branching from base, RHS 136 B (dark green)

Vigor: Vigorous growth rate

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Foliage description: Leaves single, ovate, serrate. Arrangement: opposite, decussate. Length: 8 cm. Width: 6 cm. Apex: Acuminate. Base: Cuneate. Texture: adaxial: rough (hispid), shiny; abaxial: smooth, velvety. Venation: prominent, dark purple, N79 B. Color, ventral side: Young foliage, upper and lower surfaces: RHS

10 136 B, green. Mature foliage, upper and lower surfaces: RHS 139 A. Color, dorsal side: Young foliage, RHS 139 B. Mature foliage: RHS 138 B.

Petiole: 3 cm in length, 5 mm in diameter; hispid texture, N 79 B

Flower description:

15 Flower arrangement: Raceme of panicles.

Flower shape: Irregular labiate, flat tubular with 4 lips of different size and shape.

Flower longevity on the plant: Longevity of individual flowers is highly dependent on temperature and light conditions; single flowers last from 4 to 6 days in the greenhouse with full sun and temperatures not exceeding 20 C; plant may retain

20 flowers up to 4 weeks in sufficient light and temperatures not exceeding 20 C...

Number of flowers per inflorescence: 25-30; 80-90 per stem; up to 200 per plant.

Inflorescence size: 25 – 30 flowers per inflorescence; apical length 10 cm; basal length 6 cm; width 8 cm

Floral tube: 25 mm length, horizontal diameter 3 mm; vertical diameter 7 mm.

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Buds: Length: Up to 25 mm before antithesis; height: 5 mm; width: 1 mm; tubular with angular “head”, N89 B; base N82B; inner color very light purple, RHS 76D.

10 Petals: 5 fused to basal, flat tubular corolla. Lips spotted, velvety texture. Top lip (2 fused) to inverted cordate form, revolute upright, 15 mm. Bottom lip involute, almost cup-shaped, 7 mm. Wing lips small, rounded, 4 mm. Color: ventral side of lips: light purple, N82D; dark purple spots: N79A; throat: violet, RHS 84 D; dorsal side: blue, RHS 90 C.

Sepals: Lenth 2 mm; width 1 mm, matte texture, puberulent

15 Calyx: 5 pointed lobes fused at base; veins: dark purple, N79A; ground tissue: green, RHS 136 C.

Peduncle: 6 mm length, 3 mm diameter, color RHS N79A

Pedicle: 6 mm length, 1 mm diameter, color RHS N79A

20 Reproductive Organs:

Stamen: 4 monadelphous, lower part fused to corolla tube.

Anther: Kidney-shaped, .25 mm in length, purple, N79B

Filaments: 6 mm in length

Pollen: Plenty produced, RHS N79B

Pistil: 1, lower part fused to corolla tube; free part 5 mm, curling
upward with cleft stigma, purple, N79B

Ovary: N144A, yellow-green

- 5 Seed: 5 seeds per capsule; length and width 1 mm. Immature seeds: RHS 150 B
(light yellow-green)

Fragrance: None

Weather tolerance: Plants of the new *Plectranthus* have exhibited good tolerance to
drought, rain and wind, low temperature resistant to 5C.

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